

Active Recombinant Human CD3E, Fc-tagged

Cat. No. CD3E-576H Lot. No. (See product label)

SPECIFICATION

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|-------------------------|---|
| Product Overview | The recombinant human CD3e-Fc fusion is expressed as a 333 amino acid protein consisting of Asp23 - Val127 region of CD3e (UniProt accession #P07766) and a C-terminal Fc from human IgG1, which exists as a dimer under non-reducing conditions. |
| Species | Human |
| Source | Human Cells |
| ProteinLength | 23-127 a.a. |
| Form | Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier and preservative free). |
| Bio-activity | Recognized by recombinant anti-CD3e monoclonal antibodies: human IgG1, mouse IgG1, mouse IgG2a and rabbit IgG. |
| Molecular Mass | Calculated molecular mass (kDa): 37.4; Estimated by SDS-PAGE under reducing condition (kDa): ~45 |
| Endotoxin | <0.1 eu per 1 µg of purified recombinant protein determined by the |
| Purity | >95% judged by SDS-PAGE under reducing condition |
| Storage | The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below -20°C for long-term storage and the product is stable for 3 months. The undiluted |

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protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name [CD3E CD3e molecule, epsilon \(CD3-TCR complex\) \[Homo sapiens \]](#)

Official Symbol [CD3E](#)

Synonyms [CD3E](#); [CD3e molecule, epsilon \(CD3-TCR complex\)](#); [CD3e antigen, epsilon polypeptide \(TiT3 complex\)](#); [T-cell surface glycoprotein CD3 epsilon chain](#); [CD3-epsilon](#); [T-cell surface antigen T3/Leu-4 epsilon chain](#); [T-cell antigen receptor complex, epsilon subunit of T3](#); [T3E](#); [TCRE](#); [FLJ18683](#);

Gene ID [916](#)

mRNA Refseq [NM_000733](#)

Protein Refseq [NP_000724](#)

UniProt ID [P07766](#)

Chromosome Location [11q23](#)

Pathway [Adaptive Immune System, organism-specific biosystem](#); [CXCR4-mediated signaling events, organism-specific biosystem](#); [Chagas disease \(American trypanosomiasis\), organism-specific biosystem](#); [Chagas disease \(American trypanosomiasis\), conserved biosystem](#); [Costimulation by the CD28 family, organism-specific biosystem](#); [Downstream TCR signaling, organism-specific biosystem](#); [Downstream signaling in naive CD8+ T cells, organism-specific biosystem](#);

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Function

SH3 domain binding; T cell receptor binding; protein heterodimerization activity; protein kinase binding; receptor activity; receptor signaling complex scaffold activity; receptor signaling protein activity; transmembrane signaling receptor activity;

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